



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.

Founded in 1931

JULY, 2022
VOLUME 74, ISSUE 11

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THE JULY MEETING IS THE ANNUAL PICNIC SATURDAY, JULY 16TH

SCOTT THEIS, W2LW, RARA VICE PRESIDENT

(Monthly meetings restart in August)

Please join us for our annual Summer Picnic on Saturday, the 16th of July. The picnic will be held at the Devil's Bathtub shelter in Mendon Ponds Park from 11:00AM to 2:00PM.

This is always a great occasion and an opportunity to enjoy good food and good company and to play with radios!

With an open field and surrounding woods, the Devil's Bathtub shelter provides lots of choices for antenna deployments! You are welcome to set up your own rig, or to explore what others have set up. We will have some rigs setup as well, so if you are new to HF or just want to play with other radios, this is a good opportunity.

Although there is no AC power at the shelter, we will have some 12V batteries with Anderson Powerpole distribution available for your use – just bring the correct DC cable for your radio.

We will provide hot food, but you can bring your own food and drinks. RARA will provide Hot Coals on two BBQs for you to cook on, as well as cold water to quench your thirst.

The site offers an open shelter, picnic tables inside and outside, and a porta-potty. Feel free to bring folding chairs and/or a pop-up to create your own space! Go to our Picnic Page for the latest news (<https://www.rochesterham.org/picnic.htm>).

Set up will start around 10:00AM, and the grills will be ready by noon. You are, of course, welcome to get there early to enjoy the day and each other's company.

Hoping to see you there!



RARA



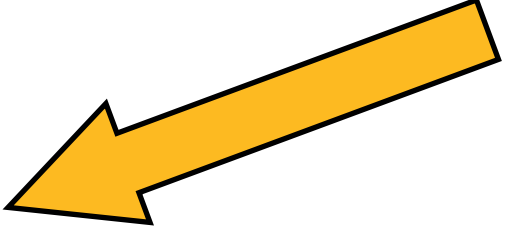
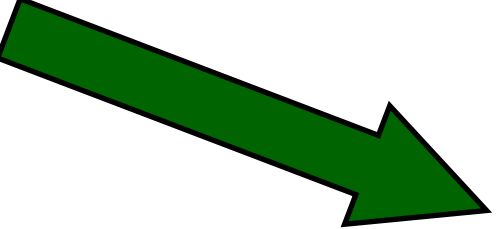
 YouTube

K2JD

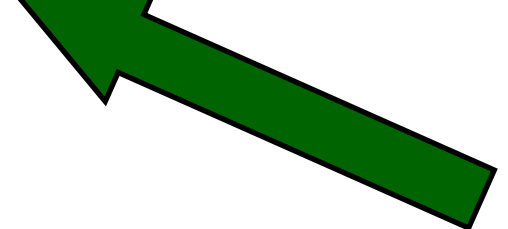
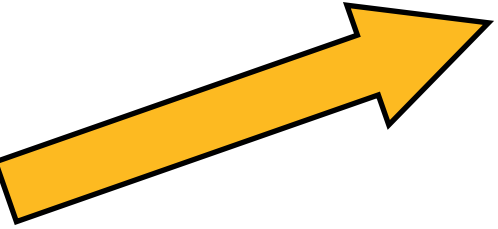
N2EH

W2EOC

**ANNUAL RARa PICNIC
SATURDAY JULY 16
DEVIL'S BATHTUB SHELTER IN
MENDON PONDS PARK**



**NO RARa GENERAL MEETING
IN JULY
THE PICNIC IS THE MEETING**



BOARDZ BUZZ

TIM GUYOT, KB1POP

We are glad to report the Rochester Hamfest was an unquestionable success. You can see from the photos we couldn't have asked for better weather or attendance. With about 550 total attendees, we had a lot more people selling in the flea market than in recent years past. While at the event, 19 people passed an exam to get their first license or to upgrade to a higher class. We had lots of attention at our bucket raffles, and 22 people went home with door prizes.

We want to acknowledge that there was some trouble with the signage. Our paper signage tore off revealing an incorrect arrow underneath. We apologize for the inconvenience this caused and will take steps next year to prevent a repeat issue.

We have a lot of thanks to give for a successful event... Without all the folks below, our event would not have been successful.

Facilities & Operations:

Hilton Exempt Club
Hilton Fire Department
C.O.P. Security
Tech Logistics & Services

Volunteer Examiners:

AC2EV – Don Kiser
AC2XI – Dennis ODonnell
K2SI – Duane Fregoe
AB2OY – Larry Stafford

Ticketing, Parking, Setup, and Raffle:

AD2DB - Joe DiVincenzo
K3WHD - Dave Enright
K5KHK - Karl Heinz Kremer
KA2WNS - Bill Holtz
KC2NM - Mike Moore
KC2VJU - Dawn Lepard
KD2IOB - Tom Wood
KD2YIQ - Yin He
KD2YUJ - Steve Armstrong
KD2YUK - Robert Kennell
N2AJK - Peter Sitter
N2MAK - Mike Kennerknecht
W2BMK - Ben Kennerknecht
W2SBA - Susan Aiello

W2SKY - Peter Fournia
WA2FTV - Cedric Kron
WA2HOY - Dave Wilson
WA2MZG - Forest Shick
WA2RRB - Jeff Sonstein
WM2W - Brian Duff

(If you volunteered and you're not on this list, please contact hfproducer@rochesterham.org)

2022 Hamfest Planning Committee

KB1POP – Tim Guyot
KC2NM – Mike Moore

Talk-In (Managed by ARES)

AD2DB - Joe DiVincenzo
K4GWA - George Adams
KC2BTW - Mike Bowen
KD2DO - Paul Conaway
KD2QZG - Seth Irwin

N2JAC - John Dickason
N2KCQ - Kevin McCoy
W2DST - Dave Timmons
W2SKY - Pete Fournia
WM2W - Brian Duff

We're penciled in for next year at the same place which gives us a tremendous head-start. If you are interested in participating in the event planning, please contact hfproducer@rochesterham.org. Getting an earlier start will help us get more door prizes, more advertising, more attendees, and of course, more of our needed volunteers.



More hamfest photos on page 7 & 13.

CALENDAR OF EVENTS

SATURDAY JULY 16, 2022 - RARA Picnic - Mendon Ponds Park
11:00AM - Devil's Bathtub Shelter

Membership – Time to Renew!

- RAG Circulation ~5,000
- RARA Membership ~550
- RARA is the 6th largest ARRL affiliated club
- **Let's make it the largest!!**
- Renew or join [here](#)
- If you have a problem renewing, please email us at:
membership@rochesterham.org



Don't Delay, Renew Today!



EDUCATION

Karl Heinz Kremer, K5KHK, Education Coordinator

RARA LICENSE COURSES

Karl Heinz Kremer, K5KHK, License Class Coordinator

Our next license classes will start in September. If you are interested in taking a class in the fall, please send an email to education@rochesterham.org, and we will put you on the list.

New Technician Question Pool

Starting on July 1st, all Technician license exams will use the new question pool.

License Manuals

Even though we are not teaching any classes over the summer, we still have the license manuals available if you want to study on your own. The current editions of the General and Amateur Extra license manuals are available to our members at a discount for \$25, we are waiting for the new edition of the Technician license manual. If you are interested, please send an email to education@rochesterham.org

I usually have some license manuals with me at official RARA events (e.g. the monthly meetings).

RARA ACADEMY

We have some exciting news: Our RARA Academy sessions are back. One of our favorite topics for both RARA Academy and Elmers' Corner are antennas. A great way to understand antennas is to simulate them. We will offer a four-session hands-on class about antenna modelling with the 4NEC2 antenna modeler and optimizer software. Mike Sanchez KM2B will teach these topics:

- Building 20m HF Dipole in 4NEC2 and analyzing results
- Introduction to using Variables and their power in 4NEC2
- Introduction to Optimization using Variables and their power in 4NEC2
- Building an HF 20m quarter wave antenna elevated antenna with four elevated radials.

All sessions will be held online, using Zoom. More details will be published once they become available. If you want a head start, you can download 4NEC2 here: <https://www.qsl.net/4nec2/>

We are still looking for input in what our next Academy session should cover. To make it easy for our members to provide such input, we created an online survey. Please go to <http://tiny.cc/RaRaAcademySurvey2022> and fill out the survey. If this short link should not work, you can also use this link:

https://docs.google.com/forms/d/1FAIpQLSfe_RvJyAfc2BidWxePLvK1r_CjQosS1PV0Ua6m2zETiyPa-w/viewform

If you can actually present an Academy session, please also get in touch with Kevin at academy@rochesterham.org.

RARA ELMERS' CORNER

Suzanne Bishopp, W2SUZ

Rich Bishopp, KD2UBJ

Elmers Corner Coordinators

Camping season has arrived and Rich and I take our radios every time we camp.

Here is my **TIP** for portable radio deployment: Make a check list. It sounds simple but so many times I hear hams saying they forgot something. Make a list for every type of deployment. Such as a QRP deployment. We have a backpack ready to go with its own list of necessities for QRP and a box and check list for our 100-watt radio deployments.

Once you have your checklist set, and container filled with all of the gear, the next thing you need to do is remember to take it! The last camping trip, we forgot our QRP backpack. That had our solar panels in it to recharge our radio battery...so of course we ran out of power. We made it through most of the weekend but had to leave a huge pile up during a Night Shift POTA activation. Live and learn!

One more tip! When you get home from your portable radio deployment make sure you charge those batteries! You never want to repack dead batteries; I know of someone that has had this happen. – not me...

The Elmers corner returns in September; however, the RARA Picnic on July 16th will be a great place for face-to-face Elmering so please come and take advantage of that. We have been hearing several new hams on the repeaters lately and you all sound great and are doing a fine job. I'm sure there are others

who have not yet pushed that PTT and may want an off-air walk through one time. Well, this will be a great place to do it. Please come to the picnic and put faces to the call signs and names and pick up a tip or trick or two and share yours too. Last year was the first year we were able to attend the picnic and we are glad we did.

Again, the Elmers' Corner returns on September 3rd from 10am to 12pm, meanwhile, reach out to us with any questions at any time to:

elmerscorner@rochesterham.org, we will do our best to find the right Elmer to answer your question.

September ELMERS' CORNER

1st Saturday of the month
September 3, 10AM – 12PM

Join Zoom Meeting

<https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09>

Meeting ID: 834 8467 4667
Passcode: 786545

One tap mobile

+16465588656,,83484674667#,,,,*786545# US (New York)

+13126266799,,83484674667#,,,,*786545# US (Chicago)

Dial by your location

+1 646 558 8656 US (New York)

+1 312 626 6799 US (Chicago)

+1 301 715 8592 US (Washington DC)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

Find your local number: <https://us02web.zoom.us/u/kiOoVkCMY>

MORSE CODE TRAINING

DAVE WILSON, WA2HOY, RXCWG COORDINATOR

The RXCW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

BEGINNERS MORSE CODE ZOOM CLASSES

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm. No experience required.

Join the group at any session.

Register at: pfournia@gmail.com

MORSE PRACTICE FOR ALL LEVELS ON ZOOM

Tim Brown, WB2PAY, hosts code practice for all levels on Wednesday evenings at 7pm.

Register at: tjbrown@rochester.rr.com

MORSE PRACTICE ON AIR

Tim Brown, WB2PAY, hosts on air practice on Tuesdays at 2PM on 6M at 50.250MHz.

To set up a cw sked, contact

Peter at pfournia@gmail.com or

Tim at tjbrown@rochester.rr.com

W1AW - <http://www.arrrl.org/w1aw-operating-schedule>

W1AW On The Air CW Practice

Time	Mon	Tue	Wed	Thu	Fri
9 AM		Fast	Slow	Fast	Slow
4 PM	Fast	Slow	Fast	Slow	Fast
7 PM	Slow	Fast	Slow	Fast	Slow
10 PM	Fast	Slow	Fast	Slow	Fast

SLOW - 5, 7 1/2, 10, 13 and 15 wpm

FAST - 35, 30, 25, 20, 15, 13 and 10 wpm

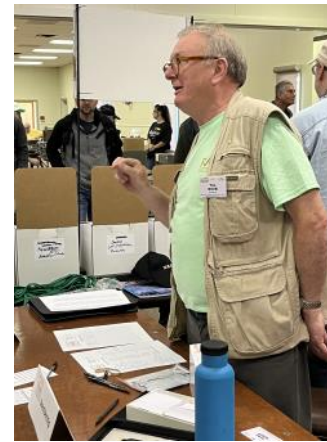
FREQ(MHz) - 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, 147.555

RADIO ELMERS

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Rich Hoffarth	K2AXP		rhoffarth2000@yahoo.com
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@gmail.com
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		mikemoore@ieee.org
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Steve Verzulli	KA1CNF		verzulli@yahoo.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com
Harry Williams	KF2TV	Kingsland, GA	harryw7872@gmail.com



HAMFEST PICTURES

PROVIDED BY DAVE WILSON, WA2HOY



PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

The American Diabetes Association Upstate New York Tour de Cure was held on Saturday June 11 at the Xerox Campus in Webster. I have received emails from participants, planning team members and the ADA congratulating us on the execution of the communications effort. This year there were 600+ cyclists. The last in-person ride was held in 2019. There were multiple rides that year and these were consolidated into a single Upstate New York ride that was held here. This was a year of rebuilding!

Thank you to the following communications team members that participated in this year's Tour de Cure. AB2OY, AD2DB, K1EM, K2DWA, K2GC, K4GWA, K5KHK, KA1CNF, KA2CGB, KB2FSB, KB2NCI, KC2ECQ, KC2NM, KC2UES, KD2BEC, KD2DNO, KD2HZZ, KD2QKU, KD2UBJ, KD2UJC, N2FV, N2JAC, N2PEZ, N2WES, N3HEN, PAIGE (No Call), W2COP, W2IT, W2OLI, W2SBA, W2SKY, W2SUZ, WA2FTV, WA2TAX. I want to especially thank the members of SIARC for participating, and Drumlins ARC for participating and providing the excellent WA2EMO repeaters used for this event. Drumlins also provided their ARES trailer that contained a local crossband link to their repeaters.

This year the SAG trucks with drivers and fuel were provided by the West Herr family of dealerships. They provided a variety of vehicles that included the following: Dodge RAM 1500, Ford F150, Toyota Tuundra, Honda, Ridgeline, BMW X7, Mercedes Benz GLS, Subaru Outback, and Ford, Expedition. Hams provided temporary stations for the West Herr vehicles. Many Hams drove their own vehicles with mobile rigs. I think that everyone enjoyed riding in this selection of vehicles. Many of the West Herr trucks had been wrapped with the ADA Tour de Cure paint scheme. Breakfast items and food truck lunches were provided to all of the volunteers. There were no injuries reported on the ride course and there were a few riders that needed to be Sag'ed back to the start when thunderstorms ended the ride a bit early. It was a great event!

Remaining events in the 2022 public service calendar are listed in the following table. Visit https://rochesterham.org/public_service.htm for more information and to volunteer.



Operating Events

Event	Location	Day	Date
ILLW	Charlotte-Genesee Lighthouse	Saturday, Sunday	Aug. 20, 21, 2022
JOTA	TBD	Saturday, Sunday	October 15-17, 2021

Please mark your calendars for our upcoming RARA Public Service Events

Event	Location	Day	Date
MS ROC the Ride (OCARC)	Lakeside State Park	Saturday	August 13, 2022
Fairport Lift Bridge Regatta	Canal, Fairport	Saturday	September 24, 2022
Pumpkin Patrol	Bridges of NYS Thruway	Sunday, Monday	Oct. 30, 31, 2022
Holiday Science and Technology Days	Rochester Museum and	TBD	TBD

RARA SUMMER PICNIC

Our July meeting will be the Annual RARA Summer Picnic! This is always a great occasion and an opportunity to enjoy good food, good company and play with radios! Here is the [registration link](#).

RARA provides the food and beverages and we will have our club radio set up.

Mark the date in your calendar and come enjoy the fun! If possible we will also organize a Radio Fox Hunt as in previous years. That is lots of fun and you don't even need a ham license to take part. All you need is your 2M handheld so remember to bring that.. Feel free to bring any other radio gear that you would like to demonstrate, play with or use, the more the merrier (note that 120 VAC is not available). The picnic will be at the [Devils Bathtub Shelter](#) in Mendon Ponds Park (43.0239, -77.5731) (same as last year) on Saturday July 16th (11AM to 2PM).

For the latest information please check the summer picnic page on our website.

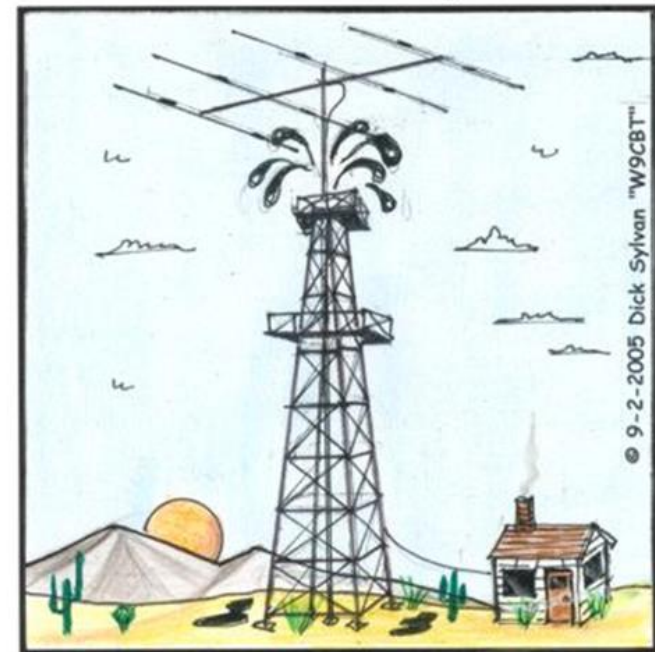
Set up will start around 10:00AM, the grill gets ready around noon and the sausages and hots will be ready soon after that. You are of course welcome to get there early to enjoy the day and each other's company. We invite you to bring an appetizer or dessert to pass so we can have an assortment of treats to choose from. In the past we have had some impressive goodies. Please take this opportunity to show off your culinary skills!

There will be door prizes. Come and Have Fun!

So that we may adequately prepare you, please register for the picnic at this [link](#).



HAM QUIPS "Gushing DX"



"Expensive Antenna Location"

Dick Sylvan, W9CBT, is a very accomplished ham radio cartoonist and his work appeared previously in the K9YA Telegraph and also appears in the NAQCC Newsletters. His book "HI - HI - A Collection of Ham Radio Cartoons" is available at www.lulu.com

D&C Rochester, NY
Sunday February 10, 1935

From: **Newspapers**
by Ancestry

Researched by Tim Barrett, K9VB

D&C Rochester, NY
Tuesday April 15, 1913

WIRELESS CLUB FORMED.

Will Be Known as Rochester Wireless Association.

At a meeting of persons interested in radio-communication, held last night at the home of James Hewitt, No. 405 Portland avenue, a club for the promotion of interest in wireless telegraphy and other forms of radio communication was formed. The club will be known as the Rochester Wireless Association and will hold its next meeting at the home of Elmer Anderson, No. 48 Kingston street, on May 7th.

The officers of the club are: President, Lawrence Hickson; vice-president, Everett Kennell; secretary, Kari Miller; treasurer, C. Irving Lusink; radio-inspector, Emil Blattner.

**Radio 'Hams' See Transmitter,
Hear Leaders at 'State Fest'**

Radio "hams," amateurs who play an important part in national and international communications, were guests of the Rochester Amateur Radio Association at the 12th annual "hamfest" and banquet of the state association in Columbus Civic Center yesterday.

Formal convention activities opened at 3 p. m. with a bowling meet between teams from Rochester, Syracuse and Buffalo. Other contests, a code test and visits to the WHAM transmitter at Victor and the Naval Reserve station at Summerville were included in the afternoon program.

At the dinner Dr. Burton T. Simpson of station W8CPC, Buffalo, director of the State Hospital for the Care and Prevention of Malignant Diseases, was toastmaster.

Speakers included Harry K. Bourne of Station G2KB, Rugby, England, who told briefly of amateur radio activities in the British Isles. Other speakers were Kenneth B. Warner of Hartford, Conn., secretary of the American Radio Relay League; Clark C. Rodman of Hartford, managing editor of QST magazine; Milton Grinnell, government inspector of Buffalo; John J. Long, chief operator of Station WHAM, and Dr. Eugene B. Woodruff of Pennsylvania State College, who demonstrated his "radio bag of tricks."

Silent Key

Wendy M. Tascione
KD2DYW
June 2, 2022

13 COLONIES SPECIAL EVENT

FOREST SHICK, WA2MZG

The 14th Annual 13 Colonies Special Event is being held July 1st through the 7th, 2022.

I wrote about last years event in the August 2021 issue of the RAG. I thought I would give you advanced notice so you may participate this year. For complete details check out their web site: www.13colonies.us

This event is "home grown". It was started by Ken Villone, KU2US. Ken lives in Conesus, New York. Ken went to grammar school with Bill Marinucci, WB2GHC and me, both former RARA presidents.

The following is a brief history provided by Ken.

It started in 2009 with one operator from each state. I had a hard time getting those op's! We figured we would have about 2-3000 total contacts for the whole event, and the event lasted for 4 days. To our surprise! we did over 12,000 total contacts...So I figured I would try it again the next year with 2 Op's from each state. We did it for 5 days. We did over 36,000 total contacts in 2010. THEN I knew we had something that the Ham community liked and wanted.

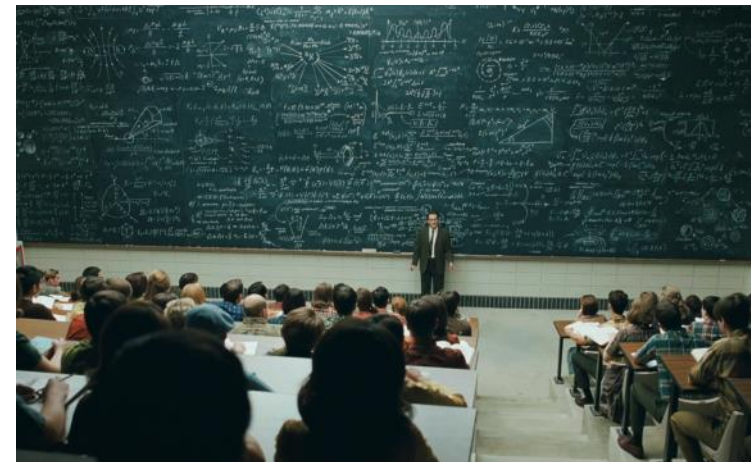
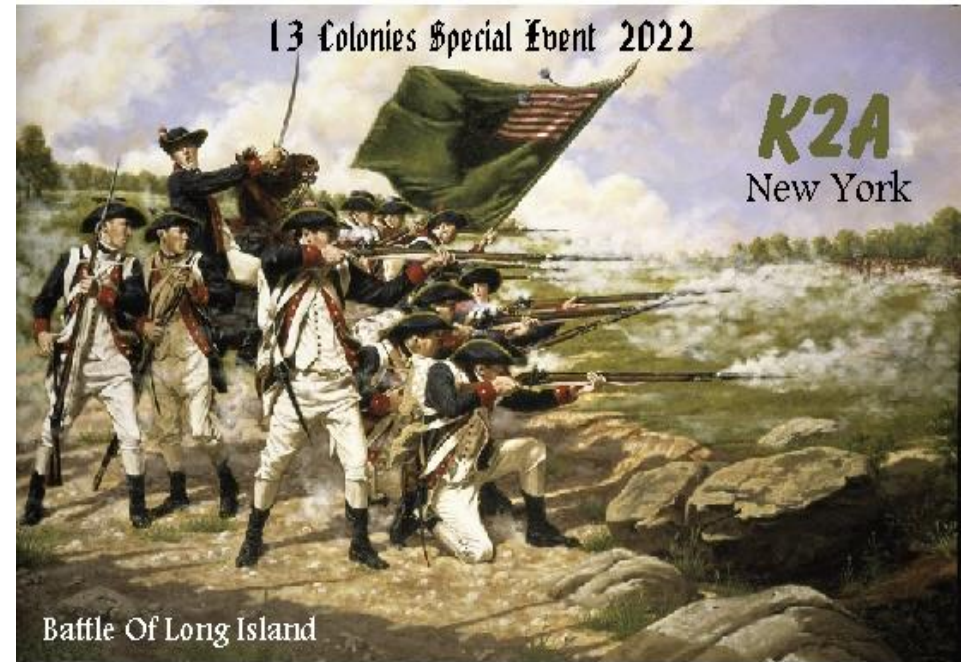
The event morphed into a 7 day event around the 4th of July, with over 250,000 contacts in 2021, 250+ State Operators, a Satellite group, all digital modes represented. We added 3 historically significant bonus stations from Philadelphia, England and France. Together England and France did about +/- 20,000 contacts in EU alone! There is something for everybody! We have a good sized QRP group also. FT8 Galore! AM & FM Op's, VHF and even a meteor scatter Op!

Each Colony State Offers a QSL card based on the event theme. In 2022 the theme is "The Land Battles of the Revolution". Each state tries to offer a QSL card of a battle that took place in their state. In New York, it was the battle of Long Island.

What is unique is that the certificate offered is a full color rendition of the year's theme and is different each year. I start sending out certificates the 2nd week of July and don't finish until around October!

What is cool about all of this is the State Operators can use just about any equipment they choose to (EX. Vintage tube gear). This year I personally will be operating Slow CW on a 1943 vintage US army signal corps J-38 Telegraph Key running about 250 watts on a G5RV up 88 feet. After having COVID last Dec, we will see if my head still can take it :)

New York QSL Card



CALL FOR PRESENTERS

SCOTT THEIS, W2LW, VICE PRESIDENT

The club needs presenters or presentation ideas for the next year. Please throw in your "two-cents" or better yet your hat and send an idea or become a presenter. It is a great learning experience, it makes for interesting meetings, helps the club and the hobby! If you're interested or have an idea, please email me at vicepresident@rochesterham.org.

2021 RARA EDUCATIONAL GRANT PRESENTATION

RARA formally presented its 2021 Education and Technology Grant to the Antique Wireless Association (AWA) at the 2022 Rochester Hamfest. The presentation check in the amount of \$2500 was given to Bob Hobday N2EVG, President of the AWA by Tim Barrett K9VB, RARA President, and Tim Guyot KB1POP, Hamfest Committee Chairman.

RARA established the educational grant to provide funding for educational projects and specific equipment needs that promote practical applications in the STEM fields of electronics and radio communications with an emphasis on youth-based activities.

The AWA, with its museum located in East Bloomfield and international membership, is well known to many RARA members. It is chartered as a non-profit educational organization. AWA sought funding under the RARA Education and Technology Grant to extend its Radio Fab Lab (RFL) program in a way that will further its mission element to "develop educational programs and opportunities for all ages".

This grant funded the purchase of a trailer that will be used to extend the AWA Radio Fab Lab program and provide on-site sessions at schools serving students over a broad area. This will allow school districts without the ability to visit the AWA Museum to benefit from its program. For more information about the RARA Education and Technology Grant see the link:

[RARA Education and Technology Grant](#). For more information about the AWA see the link: [Antique Wireless Association](#).



AN SHF DX PRIMER

EV TUPIS

The 10, 6, and 2 meter bands open for DX periodically and regularly. So do the 2.3 and 5.7 GHz bands.

The difference is that it is impossible to accurately predict when, and the direction of, 10, 6, and 2 meter openings whereas predicting multi-hundred kilometer DX on 2.3 and 5.7 GHz (and even 10, 24, and 47 GHz) is a commonplace with modest power levels (under 1-watt at 10 GHz!).

When comparing HF DX to SHF DX, consider the refracting mediums. At HF and "lower" VHF, it is usually the ionosphere...a medium that is invisible to the human eye. At SHF, it is the anomalies of the troposphere that are quite visible to the human eye and tracked constantly by the National Weather Service: rain storms and snow storms.

The National Weather Service out of Buffalo NY transmits in the upper 3 GHz band. Clearly, that RF is both reflected and scattered over long distances or one would not be able to detect storms that are 100's of km's away. At very modest amateur power levels, the same thing happens. Two stations can point at the same rain or snow cell and communicate while experiencing the "magic" of Doppler effects depending on the geometry of the cell and the path involved.

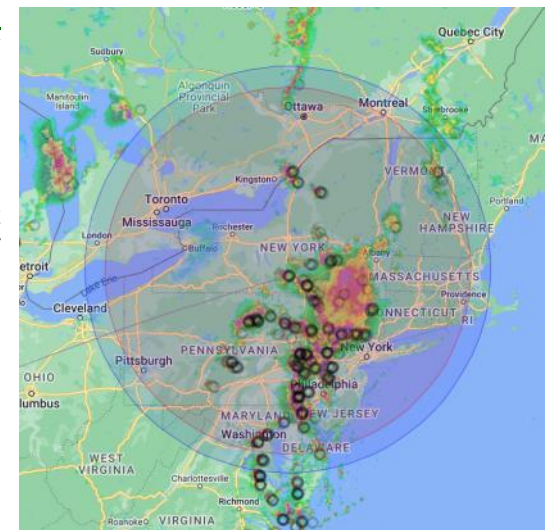
Take a look at K0SM's [rainscatter.com](https://www.rainscatter.com) to see a website designed to assist SHF operators to identify good opportunities for DX. Be patient as it loads.

Search YouTube for the call signs of VA3ELE and VA3TO for videos of them making contacts with many stations over many 100's of km's on these bands.

Join the Midwest Microwave email group: <https://groups.io/g/Midwest-Microwave> or the 10-GHz-Up email group: <https://groups.io/g/10GHz-Up> to learn more about just how easy it is to get active on these bands, and the DX that they are capable of.

Oh, by the way...even "bouncing" signals off of aircraft is a mode that can be used to communicate over long distances at these frequencies.

Of course, you can always rub elbows with locals who use this spectrum quite regularly and where "Elmer's abound"! Join the Rochester VHF Group's email list by sending an email to RVHFG+subscribe@groups.io



DID YOU KNOW

FOREST SHICK, WA2MZG



This simple, decorative, outdoor light is also an AA NiCad battery charger!



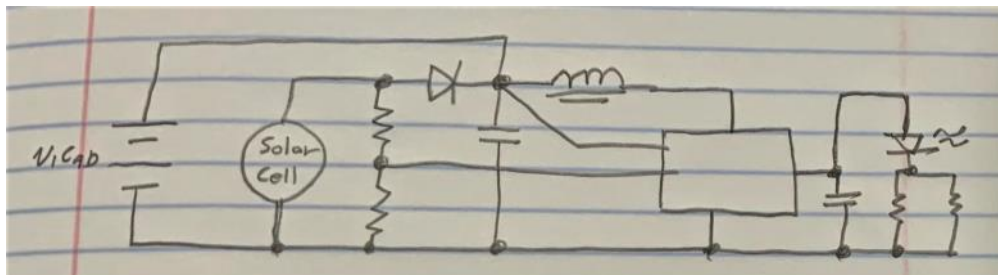
Solar cell unloaded output voltage in direct sunlight is 2.46V.

Solar cell output voltage while charging the battery, in direct sunlight is 1.57V.

This schematic is approximate. I was not able to find the IC but it is some form of switching regulator.



Buy a few to keep your NiCad batteries charged while camping.



MORE HAMFEST PHOTOS



VE TEAM

Testing takes place on the 3rd Saturday September - April

Dates for 2022: 9/18, 10/15, 11/19, 12/17

Dates for 2023: 1/21, 2/18, 3/18, 4/15

Testing Location

RIT

Rochester Institute of Technology

Building 16 -Schmitt Interfaith Center

43.08402626755475, -77.6734520379509

- Easiest path is from Parking Lot D it can be accessed from West Jefferson Rd via Andrews Memorial Dr or Lowenthal Rd
- From parking lot D walk south up the ramp to the Schmitt Interfaith Center.
- Once inside there is an elevator over to your left or stairs in front of you. Go to the first floor and you will find the Skalny room.

Please Note: this room can not be accessed from the door under the bridge.

Pre-registration is required visit:

<https://hamstudy.org/sessions/14612/inperson> to find the latest session.

More information is available on the RARA website:

https://rochesterham.org/license_testing.htm

Applicants must supply their own pen, pencil, calculator

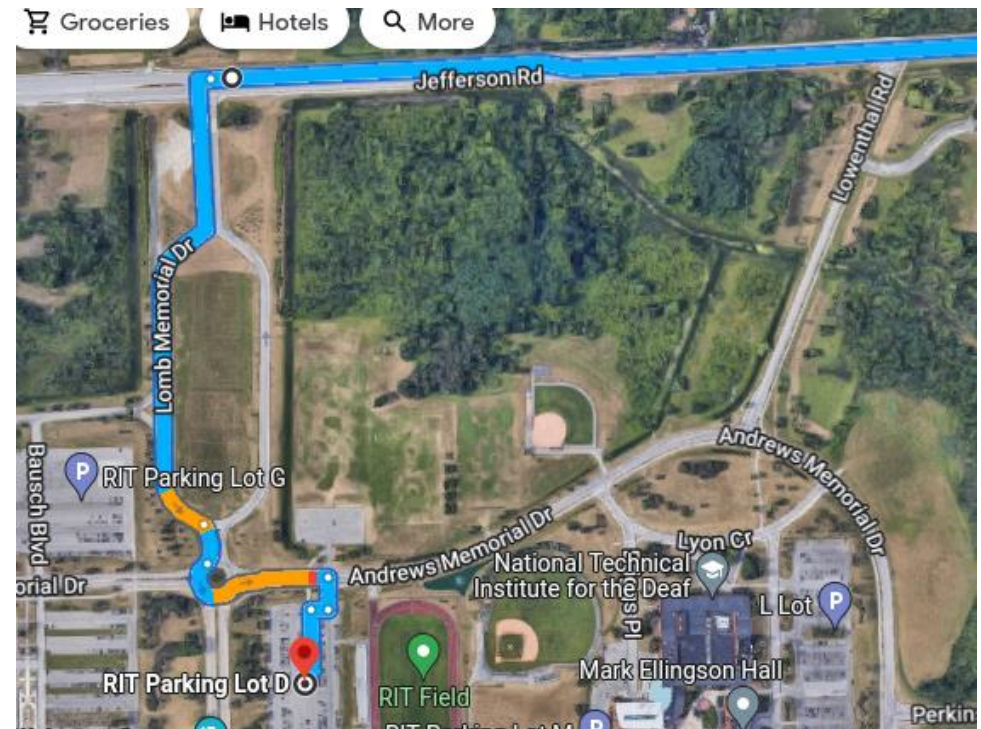
Testing begins at 10:00AM.

Also Note: The exam is free however the FCC now charges \$35 for applications. This fee is NOT paid to the VE team. It is paid directly to the FCC. You will receive an email from the FCC when your application is processed. We will also have an information sheet available

Steve Burrell	G	Lucas Eberhardt	T
Michael Gerardi	KD2TQ E	Timothy Giles	KC2YSU E
Ernest Kionke	T	Kendall Koning	KD2ZMB G
Ryan Oakes	T	Paul Schramel	T
Jeffrey Small	G	Thomas Small	KD2ZLP G
Brian Talma	KD2SEU G	Robert Tatarka Jr	AD2DZ E
Alexandra Volk-Behnke	T	Andrew Watt Jr	KD2UOU G
Thomas Wood	KD2IOB G	Meghan Zaremba	T
Edward Mathes	T	Thomas Reeverts	T
James Howard	N2JMH G		

New licensees' names are in BOLD

Blank Call - Call sign not available at this time



RARA CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

July 2022						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 K1USN Slow Speed Test RAC Canada Day Contest	2 Venezuelan Ind. Day Contest Marconi HF Contest Original QRP Contest PODXS 070 40M Sprint
3 Marconi HF Contest Original QRP Contest PODXS 070 40M Sprint K1USN Slow Speed Test	4 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS RSGB 80M CW Championship ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest ARS Spartan Sprint	5 RTTYOPS Weeksprint Phone Weekly Test	6 ROC City Net ~3.840 MHz, 7 pm VHF-UHF FT8 Contest Walk for the Bacon QRP Contest A1 Club AWT CWOps Test	7 RARA BoD Mtg 6:30pm ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB Walk for the Bacon QRP Contest NRAU 10m Activity Contest EACW Meeting NCCC Sprints SKCC Sprints Europe QRP Foxhunt	8 K1USN Slow Speed Test	9 IARU HF World Championship SKCC Sprint Marathon
10 IARU HF World Championship SKCC Sprint Marathon 4 States QRP Sprint QRP ARCI Homebrew Sprint K1USN Slow Speed Test	11 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest ICWC Medium Speed Test OK1WC Memorial	12 RTTYOPS Weeksprint Phone Weekly Test	13 ROC City Net ~3.840 MHz, 7 pm VHF-UHF FT8 Contest A1 Club AWT CWOps Test	14 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB EACW Meeting NCCC Sprints QRP Foxhunt	15 K1USN Slow Speed Test	16 RaRa Picnic Mendon Ponds Park 11:00 Devils Bath tub IARU Region 1 70 MHz Contest NA QSO Party, RTTY CQ Worldwide VHF Contest
17 K1USN Slow Speed Test IARU Region 1 70 MHz Contest NA QSO Party, RTTY CQ Worldwide VHF Contest RSGB Int. Low Power Contest CQC Great Colorado Gold Rush Run for the Bacon QRP Contest	18 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest ICWC Medium Speed Test OK1WC Memorial RSGB FT4 Contest	19 RTTYOPS Weeksprint Phone Weekly Test	20 ROC City Net ~3.840 MHz, 7 pm VHF-UHF FT8 Contest A1 Club AWT CWOps Test Walk for the Bacon QRP Contest	21 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB EACW Meeting NCCC Sprints QRP Foxhunt Walk for the Bacon QRP Contest NTC QSO Party	22 K1USN Slow Speed Test	23 YOTA Contest ARAM 50 MHz Contest
24 K1USN Slow Speed Test	25 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest ICWC Medium Speed Test OK1WC Memorial QCX Challenge	26 RTTYOPS Weeksprint Phone Weekly Test	27 ROC City Net ~3.840 MHz, 7 pm	28 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB EACW Meeting NCCC Sprints QRP Foxhunt RSGB 80M Data Championship	29 K1USN Slow Speed Test	30 Feld Hell Sprint RSGB IOTA Contest ARS Flight of the Bumblebees
31 K1USN Slow Speed Test RSGB IOTA Contest ARS Flight of the Bumblebees						

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES News

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: secretary@monroecountymcomm.org.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 MHz (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountymcomm.org

Facebook: Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESNY

Severe Weather Alerts: Winter may bring severe weather in the form of heavy snow storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES
George Adams IV, Net Control - cq@k4gwa.net

ROCHESTER DX ASSOCIATION, RDXA

There is no July or August meeting.

Please check our website for up-to-date information regarding meeting locations and requirements, if any.



All are welcome.

Check our web site: www.rdxa.com.

ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA will not be having its regular meetings for July and August. We will be on summer hiatus. Our next meeting will be on September 16th.

Stay tuned to our web site, www.k2rra.org for current information. The current officers for June are Bob Shewell - N2HJD - President, Bob Odell - N2BZX - Vice President, and Bob Smith - NS2B-Treasurer / Membership Chairman. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site using PayPal. www.k2rra.org

XRX AMATEUR RADIO CLUB

The XRX Amateur Radio Club is not having in-person meetings at this time. We are having online meetings usually on the second Thursday of the months Sept-June. Get the latest updates at <http://xarc.us>

ROCHESTER VHF GROUP

You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.



Check out what we do by visiting our website at <http://RVHFG.org> to start.

Join our e-mail group by sending a message to RVHFG+subscribe@groups.io.

Join our weekly on-the-air nets on SSB:
2 meter band - Monday 9 PM 144.260 USB
6 meter band - Thursday 9 PM 50.200 USB

No VHF SSB radio (yet) to join the nets?
Log-in to Echolink ka2ene-L #23426

We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

Currently, ARAST meets the third Thursday of every month at the Emergency Communications Center on Harris Hill in Big Flats, next to the National Soaring Museum. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February at the same location. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

NOTE: Both CCARES and ARAST monthly meetings are now being held both in person and online. Check out the Upcoming Events at our website, www.arast.info, for the latest details.

Once again, we will be holding the Elmira Hamfest on September 24 of this year. Advance tickets may be purchased online at http://www.arast.info/arast_website/public/hamfest.php and they will be mailed out early in September.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at http://www.arast.info/arast_website/public/repeaters.php.

We also invite you to check out our new 6-meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

Our Hamfest is August 20th. Please come visit the Friendliest little Hamfest in the area. Coffee is always on and for your \$5 you get to tailgate in the parking lot, set up your own tables or be inside at our tables. Door prizes and VE Testing offered. Plus we have our reasonable priced great Breakfast, so come hungry!

During the Steuben County Fair Aug 16-21. We have a booth inside the Fair Building with the Red Cross and Steuben County Emergency Services. We will be there Tuesday through Friday. Come say hello!

ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2nd Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two-meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

SKENOH ISLAND AMATEUR RADIO CLUB, SIARC

The Skenoh Island Amateur Radio Club meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will be Wednesday, July 13th. There will be license exam testing starting at 6:30 PM. The program for this meeting will be a review of members mobile installations in the parking lot. Also bring any portable equipment you have made and show it off.

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 2000 hours on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate

Check the SIARC website for updates. <http://www.siarc.us/>

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

RARA HAMFEST SPONSORS PLEASE SUPPORT OUR HAMFEST SPONSORS



When you purchase
from one of our
sponsors, PLEASE
mention RARA and
THANK them for
their support



HAM RADIO DELUXE



www.arrl.org



<https://elecraft.com/>

QRP Quarterly

QRP Amateur Radio Club
International

www.qrparci.org



www.tigertronics.com



<https://heilhamradio.com/>



www.mfjenterprises.com



www.n3fjp.com

ALPHA ANTENNA

<https://alphaantenna.com/>



<https://www.buddipole.com/>



<https://cometantenna.com/>



[https://
www.easywayhambooks.co
m/index.cfm](https://www.easywayhambooks.com/index.cfm)

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Tim Barrett, K9VB	(646) 496-5015	president@rochesterham.org	Treasurer: Mike Moore, KC2NM	(585) 721-0011	treasurer@rochesterham.org
Vice-President: Scott Theis, W2LW	(845) 774-9809	vicepresident@rochesterham.org	Secretary: Karl Heinz Kremer, K5KHK	(585) 210-0840	secretary@rochesterham.org

DIRECTORS

Paul Conaway, KD2DO	(585) 506-5538	ConawayNY@aol.com	Mike Kennerknecht, N2MAK	(585) 754-2444	makennerknecht@gmail.com
David Enright, K3WHD	(585) 737-3657	denright1228@gmail.com	Brian O'Connor, KA2CGB	(585) 721-2346	ka2cgb@gmail.com
Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com			

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Public Service	Mike Moore, KC2NM	publicservice@rochesterham.org
Club Station Trustee	Dave Enright, K3WHD	denright1228@gmail.com	QSL MANAGER	Dave Enright, K3WHD	denright1228@gmail.com
Education Coordinator	Karl Heinz Kremer, K5KHK	education@rochesterham.org	Raffle Administrators	Forest Shick, WA2MZG Jeff Sonstein, KD2RRB	wa2mzg@arrl.net
Elmers Corner	Richard Bishopp, KD2UBJ Suzanne Bishopp, W2SUZ	elmerscorner@education.org	RARA Academy	Kevin Denton, KD2WXS	academy@rochesterham.org
Hamfest Co-Producers	Tim Guyot, KB1POP Mike Moore, KC2NM Dave Mitchell, KD2RAF	hproducer@rochesterham.org	RARA RAG Editors	Forest Shick, WA2MZG Mike Kennerknecht, N2MAK Susan Aiello, W2SBA	editor@rochesterham.org
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ROCHESTER AREA RADIO CLUB CONTACTS

Amateur Radio Association of the Southern Tier (ARAST)

Reiner Dieg, N2PEZ: n2pez@arrl.net

Antique Wireless Association (AWA)

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Astronomy Section Rochester Academy of Science

Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)

Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)

Gary Skuse, KA1NJL: ka1njl@arrl.net

Drumlins Amateur Radio Club Ltd. (DARC)

drumlinsarc@gmail.com

Genesee Valley Amateur Radio Assn.

Bill Boyd, N3DSP: N3DSP@lafireline.net

Keuka Lake Amateur Radio Association (KLARA)

Jim Caneen, W2JTC: jcpilot@localnet.com

Monroe County ARES / RACES

Dave Timmons, W2DST: secretary@monroecountyemcomm.org

Orleans County Amateur Radio Club (OCARC)

Terry Cook, K2EYS: k2eys@ocarc.us

Rochester Amateur Radio Association (RARA)

Tim Barrett, K9VB: president@rochesterham.org

ROC City Net

Joe Merolillo, K2ZX: k2zx52@gmail.com

Rochester DX Association (RDXA)

Chris Shalvoy, K2CS: cshalvoy@att.net

Rochester Institute of Technology ARC

Jim Stefano, W2COP: wireless@mail.rit.edu

Rochester Radio Repeater Association (RRRA)

Bob Shewell, N2HJD: bshewell@frontiernet.net

Rochester VHF Group (RVHFG)

Rus Healy, K2UA: chairman@rvhfg.org

Skenoh Island Amateur Radio Club (SIARC)

Steve Benton, WB2VMR: sbenton2@rochester.rr.com

West Side Amateur Radio Club

XRX Amateur Radio Club

Brian Donovan, K2AS: k2as@outlook.com

Interlock Rochester

contact us at info@interlockroc.org

Rochester Makerspace

David Duckles: rocmakers@gmail.com

AUGUST RAG DEADLINE JULY 15, 2022

There is NO RARA meeting for July

The next RARA meeting will be August 3, 2022

CONTACT WEBMASTER@ROCHESTERHAM.ORG FOR SUPPORT

Rochester Area Repeater Listing *THE RARA RAG*

Published by
Rochester Amateur Radio Association, Inc.
P.O. Box 93333, Rochester, NY, 14692-8333
Hotline – (585) 210- 8910
Website – <http://www.rochesterham.org>



MARK YOUR CALENDARS FOR THE: 2022 AWA Conference October 4 thru 8, 2022



RIT Inn and Conference Center - 5257 West Henrietta Road - Henrietta, NY 14467

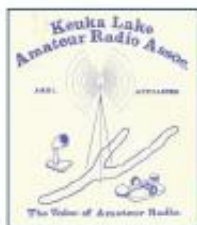
- Dual themes: "100 Years of Car Radios" and "Evolution of Audio"
- **Free* access for buyers and sellers - Thursday 10/6 & Friday 10/7 to the AWA Communication & Electronic Equipment Flea Market**
 - Equipment auction on Saturday 10/8
 - Book mart
 - Over a dozen outstanding presentations
 - Equipment contest
- Admission to the Antique Wireless Museum is free Wednesday October 5th

***You do not need to register for the conference to buy or sell at the flea market.** Conference registration: includes the free dessert social on Wednesday evening October 5th, this year's registration also includes your free Friday night banquet dinner and includes equipment auction bidder's card. As always, registration for your spouse or significant other is free. You do not need to be an AWA member to attend.

For complete details: <https://www.antiquewireless.org/homepage/annual-conference/>



**ARRL
SANCTIONED
EVENT**



14th Annual
Keuka Lake Amateur Radio Association

HAMFEST

Saturday, August 20, 2022 Howard, NY

Just off I-86 at Exit 35

follow signs to the Howard Community Center



Special instructions for GPS users:

Some GPS systems will recognize 7481 Hopkins Rd., Howard, NY.
Since Howard, NY does not have a post office or ZIP Code,
some GPS systems will require 7481 Hopkins Rd., Avoca, NY 14809.
Or use coordinates 42.3618, -77.510.

Talk-In
on the KLARA
Repeater System

145.190 – Bath, NY
147.045 + Arkport, NY
147.330 + Cameron, NY
PL 110.9

**Admission
and
Breakfast**

\$5.00 admission includes
one outdoor flea market
space or one indoor table
space. Also available is a
full breakfast with eggs and
pancakes.
Never ending coffee!

Hamfest Schedule

7:00 Vendor Admission
7:30 Open to the Public
8:00 Breakfast Begins
8:30 1st Door Prize Drawing
9:00 2nd Door Prize Drawing
9:30 3rd Door Prize Drawing
10:00 4th Door Prize Drawing
10:00 VE Testing
10:30 5th Door Prize Drawing
11:00 50-50 Drawing and More
Door Prizes
Must be present to win prizes



Friday Night Camping

Join us for free on-site overnight camping.
Self contained camping units only.
No electric. No water.
Yes, an enjoyable evening with very friendly hams.

Campers Must RSVP
keukalakeara@gmail.com



KLARA/ARRL Testing

10:00am - a perfect time
to get your Ham Radio License
or upgrade to General or Extra

Visit us on Facebook:
Keuka Lake Amateur Radio Association
Visit us on the web:
klara.us
Contact us at:
keukalakeara@gmail.com



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